

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGHTHE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1 EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
  U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 0919/359
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was refrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3 Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading).  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
Las en la companya de	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.  <210> sequence id number  <400> sequence id number  000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response -	Per 1.823 of Sequence Rules, the only <u>valid &lt;213&gt;</u> responses are: Unknown, Artificial Sequence, or <u>scientific name (Genus/species). &lt;220&gt;-&lt;223&gt; section is required when &lt;213&gt; response is Unknown or is Artificial Sequence.</u>
Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

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RAW SEQUENCE LISTING
                   PATENT APPLICATION: US/09/910,354
                   Input Set : A:\PTO.YF.txt
                   Output Set: N:\CRF4\05282004\1910354.raw
    3 <110> APPLICANT: Jarrell, et al., Kevin
    5 <120> TITLE OF INVENTION: Modular Vector Systems
    7 <130> FILE REFERENCE: 2003320-0032
    9 <140> CURRENT APPLICATION NUMBER: 09/910,354
   10 <141> CURRENT FILING DATE: 2001-07-20
                                                               Corrected Diskette Needed
   12 <160> NUMBER OF SEQ ID NOS: 24
   14 <170> SOFTWARE: PatentIn version 3.2
   16 <210> SEQ ID NO: 1
   17 <211> LENGTH: 23
   18 <212> TYPE: DNA
   19 <213> ORGANISM PCR primer EU-1 for amplification of a vector fragment containing
 > 20 bacterical origin of replication, Lac I gene, and pT7 promoter.
   22 <400> SEQUENCE: 1
   23 cauggtatat ctccttctta aag
   26 <210> SEQ ID NO: 2
   27 <211> LENGTH: 22
   28 <212> TYPE: DNA
   29 <213 > ORGANISM: PCR primer Eu-2 for amplification of a vector
--> 30 bacterial origin of replication. Lac I gene, and pT7 promoter.
   32 <400> SEQUENCE: 2
                                         AME ERROR
   33 cucatgacca aaatccctta ac
   36 <210> SEQ ID NO: 3
   37 <211> LENGTH: 22
   38 <212> TYPE: DNA
   39 <213> ORGANISM: PCR primer EU-3 for amplification of a vector fragment containing Amp
-> 40 (gene.
                                           came error
   42 <400> SEQUENCE: 3
   43 gagattatca aaaaggatct tc
                                                                            22
   46 <210> SEQ ID NO: 4
   47 <211> LENGTH: 20
   48 <212> TYPE: DNA
   49 <213 > ORGANISM:
                      PCR primer EU-4 for amplification of a vector fragment containing Amp
--> 50 (gene.
   52 <400> SEQUENCE: 4
                                            SAMY ELRON
   53 uaactagcat aaccccttgg
                                                                            20
   56 <210> SEQ ID NO: 5
   57 <211> LENGTH: 21
   58 <212> TYPE: DNA
   59 <213 > ORGANISM: PCR primer 5' Lac Z for amplification of an insert fragment containing
-> 60(Lac Z gene.
                                         SAME ERROR
   62 <4<del>00> SEQUENCE:</del> 5
   63 augaccatga ttacgccaac g
                                                                            21
   66 <210> SEQ ID NO: 6
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DATE: 05/28/2004

TIME: 13:27:24

CAME Input Set : A:\PTO.YF.txt Output Set: N:\CRF4\05282004\I910354.raw 67 <211> LENGTH: 22 68 <212> TYPE: DNA 69 CALES ORGANISM: PCR primer 3' Lac Z for amplification of an insert fragment containing 70(Lac Z gene. 72 <400> SEQUENCE: 6 73 uuacaatttc cattcgccat tc 22 76 <210> SEQ ID NO: 7 77 <211> LENGTH: 37 78 <212> TYPE: DNA 79 <213> ORGANISM: (PCR primer 5' OST for amplifying an Ori fragment from pET 19 b. 81 <400> SEQUENCE: 7 82 ctgctaagtg agcucgacag atcgctgaga taggtgc 37 85 <210> SEO ID NO: 8 86 <211> LENGTH: 36 87 <212> TYPE: DNA 88 <213> ORGANISM: (PCR primer 1N 3' Ori(s) for amplifying an Ori fragment from pET 19b. 90 <400> SEQUENCE: 8 91 aagcttgcta agtagggcgt ttttccatag gctccg 36 94 <210> SEQ ID NO: 9 95 <211> LENGTH: 36 96 <212> TYPE: DNA 97 <213> ORGANISM: PCR primer 1NT5'KAN for amplifying a fragment containing the kanamycin > 98 (resistance gene from pCR2.1 topo. 100 <400> SEQUENCE: 9 101 ctacctagca agctuctatc tggacaaggg aaaacg 36 104 <210> SEQ ID NO: 10 105 <211> LENGTH: 41 106 <212> TYPE: DNA <u>10</u>7 <213> ORGANISM: ∲CR primer T73' KAN for amplifying a fragment containing the canamycin W--> 108 resistance gene from pCR2.1 topo. 110 <400> SEQUENCE: 10 111 ccctatagtg agtcgtatta aggcgaaaac tctcaaggat c 41 114 <210> SEQ ID NO: 11 115 <211> LENGTH: 42 116 <212> TYPE: DNA 11 <213> ORGANISM: PCR primer tcs1 for amplifying a fragment containing the luciferase -> 118 From pG1 II basic 120 <400> SEQUENCE: 11 121 ttaatacgac tcactatagg gatggaagac gccaaaaaca ta 42 124 <210> SEQ ID NO: 12 125 <211> LENGTH: 36 126 <212> TYPE: DNA 127 <213> ORGANISM: PCR primer tc58 for amplifying a fragment containing the luciferase V--> 128 from pG1 II basic. 130 <400> SEQUENCE: 12 36 131 gageteaett ageagttaea atttggaett teegee 134 <210> SEQ ID NO: 13 135 <211> LENGTH: 36

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,354

136 <212> TYPE: DNA

**t**ene

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,354

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TIME: 13:27:24



Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\05282004\I910354.raw

137 <213> ORGANISM: PCR primer 1NT 5'KAN for amplifying a fragment containing the

anar	nycin		
>	138(	resistance gene from pCR 2.1 topo.	
	140	<400> SEQUENCE: 13	
	141	ctacctagca agctuctatc tggacaaggg aaaacg	36
	144	<210> SEQ ID NO: 14	
	145	<211> LENGTH: 33	
	146	<212> TYPE: DNA	
	147	<213> ORGANISM: PCR primer 1NT 3'KAN for amplifying a fragment conta:	ning the
anar	nycin		
r>	148/	resistance gene from pCR 2.1 topo.	
	150	<400> SEQUENCE: 14	
	151	gageteaett ageaaggega aaacteteaa gga	33
	154	<210> SEQ ID NO: 15	
	155	<211> LENGTH: 37	
		<212> TYPE: DNA	
	157	<213> ORGANISM: PCR primer 1NT5' Ori for amplifying a fragment conta	ning the Ori
rom			3146
I>	158	pET 19b.	
	160	<400> SEQUENCE: 15	
	161	ttgctaagtg agcucgacag atcgctgaga taggtgc	37
	164	<210> SEQ ID NO: 16	
	165	<211> LENGTH: 36	
		<212> TYPE: DNA	
_	167	<213> ORGANISM: PCR primer 1N3'Ori(s) for amplifying a fragment conta	aining the Ori/
rom			
·>	1682	pET 19b	
	170	<400> SEQUENCE: 16	
	171	aagcttgcta agtagggcgt ttttccatag gctccg	36
	174	<210> SEQ ID NO: 17	
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		<212> TYPE: DNA	
	177	<213> ORGANISM: (PCR primer 3nt 5'OST for amplifying an Ori fragment.)	)
		<400> SEQUENCE: 17	•
	180	ctgctaagtg agcucgacag atcgctgaga taggtgc	37
		<210> SEQ ID NO: 18	
		<211> LENGTH: 36	
		<212> TYPE: DNA	`
		<213> ORGANISM: (PCR primer 3nt 5'OST for amplfiying an Ori fragment.	)
		<400> SEQUENCE: 18	
		aagettgeta gguaggetae gtettgetgg egtteg	36
	192	<210> SEQ ID NO: 19	
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		<213> ORGANISM: PCR primer 3nt 5'KHT for amplifying a KAN fragment)	
		<400> SEQUENCE: 19	
		ctacctagca agcuuctatc tggacaaggg aaaacg	36
		<210> SEQ ID NO: 20	
		<211> LENGTH: 35	
		<212> TYPE: DNA	_
		<213> ORGANISM PCR primer 3nt 3'KST for amplifying an Ori(s) fragmer	it.)
		<400> SEQUENCE: 20	
	207	gageteaett ageagggega aaacteteaa ggate	35

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,354

DATE: 05/28/2004 TIME: 13:27:24

Input Set : A:\PTO.YF.txt
Output Set: N:\CRF4\05282004\I910354.raw



		. ~ -
	<210> SEQ ID NO: 21	
~	<211> LENGTH: 37	
212	<212> TYPE: DNA	
213	<213> ORGANISM: PCR primer 1NT 5'ORI for amplifying an Ori(s) fragmen	
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216	ttgctaagtg agetegaeag ategetgaga taggtge	37
219	<210> SEQ ID NO: 22	
220	<211> LENGTH: 36	
221	<212> TYPE: DNA	
222	<213> ORGANISM: PCR primer 1NT3' Ori(s) for amplifying an Ori(s) frag	ment.
224	<400> SEQUENCE: 22	
225	aagcttgcta ggtagggcgt ttttccatag gctccg	36
228	<210> SEQ ID NO: 23	
229	<211> LENGTH: 36	
230	<212> TYPE: DNA	
231	<213> ORGANISM: PCR primer 1NT 5'KAN for amplifying an KAN fragment.	)
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234	ctacctagea agetuctate tggacaaggg aaaaeg	36
237	<210> SEQ ID NO: 24	
238	<211> LENGTH: 33	
239	<212> TYPE: DNA	
240	<213 > ORGANISM: PCR primer 1NT3 KAN for amplifying an Ori(s).	
242	<400> SEQUENCE: 24	
243	gageteaett ageaaggega aaaeteteaa gga	33

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 05/28/2004

PATENT APPLICATION: US/09/910,354

TIME: 13:27:25

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\05282004\I910354.raw

## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:11; Line(s) 117

Seq#:12; Line(s) 127

DATE: 05/28/2004

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/910,354 TIME: 13:27:25

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\05282004\I910354.raw

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